

LISTING OF CLAIMS:

The following listing of claims replaces all previous versions and listings in the present application.

1. (Currently amended) ~~An electrostatic vibration type device~~ A device having a vibrator that is driven electrostatically, the device comprising:
 - a base portion substrate;
 - a vibrator movably equipped to supported by the base portion substrate so as to vibrate in a predetermined direction, wherein the vibrator includes a frame portion ~~designed to have~~ having a planar frame shape[,]; and
 - ~~at least one~~ an in-frame fixed portion that is fixed to the ~~base portion substrate~~ and located in an inner space surrounded by an inner peripheral portion of the frame portion; and
 - ~~at least one~~ a driving electrode for applying electrostatic force to the vibrator to drive the vibrator so that the vibrator vibrates in the predetermined direction, wherein the ~~at least one~~ driving electrode comprises:
 - a first driving electrode disposed to confront an outer peripheral portion of the vibrator; and
 - ~~a second driving electrode equipped to the~~ disposed on a first side of the in-frame fixed portion and disposed so as to confront the inner peripheral portion of the frame portion, the second driving electrode being further electrically connected to the first driving electrode to cooperatively apply the electrostatic force to the vibrator in a same direction as the first driving electrode,

wherein at least one of a ~~back-side~~ portion of the in-frame fixed portion located at ~~opposite~~ sides to the arrangement portion of ~~opposite~~ to the first side on which the second driving electrode is disposed, and a ~~back-side~~ portion of the inner peripheral portion of the frame portion confronting the ~~back~~second side portion of the in-frame fixed portion is designed to have an unevenly-shaped portion.

2. (Currently amended) The electrostatic vibration type device according to the claim 1, wherein both the ~~back-side~~ portions second side portion of the in-frame fixed portion and the side portion of the inner peripheral portion of the frame portion which confronts the ~~back-side~~ second side portion are designed to have the unevenly-shaped portion.

3. (Currently amended) The electrostatic vibration type device according to claim 2A device having a vibrator that is driven electrostatically, the device comprising:

a substrate;

a vibrator movably supported by the substrate so as to vibrate in a predetermined direction, wherein the vibrator includes a frame portion having a planar frame shape;
an in-frame fixed portion that is fixed to the substrate and located in an inner space surrounded by an inner peripheral portion of the frame portion; and

a driving electrode for applying electrostatic force to the vibrator to drive the vibrator so that the vibrator vibrates in the predetermined direction, wherein the driving electrode comprises:
a first driving electrode disposed to confront an outer peripheral portion of the vibrator;
and

a second driving electrode equipped to a first side of the in-frame fixed portion and disposed to confront the inner peripheral portion of the frame portion,
wherein at least one of a second side portion of the in-frame fixed portion located opposite to the side on which the second driving electrode is disposed, and a side portion of the inner peripheral portion of the frame portion confronting the second side portion of the in-frame fixed portion has an unevenly-shaped portion, and wherein the frame portion is partially cut out to form a notch portion in the frame portion, and the in-frame fixed portion extends from the base portion~~substrate~~ through the notch portion into the inner peripheral portion of the frame portion.

4. (Currently amended) The ~~electrostatic vibration~~ ~~type~~ device according to claim 2, wherein the unevenly-shaped portion of the ~~back side~~second side portion of the in-frame fixed portion and the unevenly-shaped portion of the inner peripheral portion of the frame portion which confronts the ~~back side~~second side portion are arranged to be displaced from each other in phase.

5. (Currently amended) The ~~electrostatic vibration~~ ~~type~~ device according to claim 2, wherein the unevenly-shaped portion of the ~~back side~~second side portion of the in-frame fixed portion and the unevenly-shaped portion of the inner peripheral portion of the frame portion have a shape selected from a group consisting of a planar rectangular shape, a triangular shape, a trapezoidal shape, a semi-circular shape and a saw-tooth shape.

6. (Currently amended) The ~~electrostatic vibration type~~ device according to claim 1, wherein the frame portion is partially cut out to form a notch portion in the frame portion, and the in-frame fixed portion extends from the ~~base portion~~substrate through the notch portion into the inner peripheral portion of the frame portion.

7. (Currently amended) ~~An electrostatic vibration type device~~A device having a vibrator that is driven electrostatically, the device comprising:

~~a base portion~~substrate; and

~~a vibrator movably equipped to~~supported by the ~~base portion~~substrate, the ~~vibrator~~ being driven by an electrostatic force being applied thereto and comprised of~~comprising~~ a frame portion ~~designed to have~~having a planar frame shape; and

~~at least one~~an in-frame fixed portion that is fixed to the ~~base portion~~substrate and located in an inner space surrounded by an inner peripheral portion of the frame portion, wherein the in-frame fixed portion has a side portion and the inner peripheral portion has a side portion, wherein a capacitor is generated between the side portion of the in-frame fixed portion and the side portion of the inner peripheral portion, wherein at least one of a back side~~the~~the side portion of the in-frame fixed portion and a back side~~the~~the side portion of the inner peripheral portion of the frame portion confronting the back side portion of the in-frame fixed portion is designed to have an unevenly-shaped portion so that an electrostatic force to be generated in the capacitor is smaller than the electrostatic force for driving the vibrator.

8. (Currently amended) The ~~electrostatic vibration type~~ device according to the claim 7, wherein both the ~~back-side portion~~side portion of the in-frame fixed portion and the side portion of the inner peripheral portion of the frame portion ~~which confronts the back-side portion~~ are designed to have the unevenly-shaped portion.

9. (Currently amended) The ~~electrostatic vibration type~~ device according to claim 8, wherein the unevenly-shaped portion of the ~~back-side~~side portion of the in-frame fixed portion and the unevenly-shaped portion of the inner peripheral portion of the frame portion ~~which confronts the back-side portion~~ are arranged to be displaced from each other in phase.

10. (Currently amended) The ~~electrostatic vibration type~~ device according to claim 8, wherein the unevenly-shaped portion of the ~~back-side~~side portion of the in-frame fixed portion and the unevenly-shaped portion of the inner peripheral portion of the frame portion have a shape selected from a group consisting of a planar rectangular shape, a triangular shape, a trapezoidal shape, a semi-circular shape and a saw-tooth shape.

11. (New) A device having a vibrator driven electrostatically, comprising:

a substrate;

a vibrator movably supported by the substrate being movable in a predetermined direction, the vibrator comprising a first movable electrode and a second movable electrode equipotentially displaced from the first movable electrode;

a first driving electrode disposed to face the first movable electrode to form a first capacitor for applying electrostatic force to the vibrator to drive the vibrator in one direction along the predetermined direction; and

a second driving electrode disposed between the first movable electrode and the second movable electrode, and equipotentially provided to the first driving electrode, wherein the second driving electrode faces the second movable electrode to form a second capacitor for cooperatively applying electrostatic force to the vibrator with the first capacitor to drive the vibrator in the predetermined direction;

wherein at least one of a side portion of the first movable electrode at an opposite side of the first driving electrode, and a side portion of the second driving electrode at an opposite side of the second movable electrode has an unevenly shaped portion.

12. (New) The device according to claim 11, wherein both the side portion of the first movable electrode and the side portion of the second driving electrode have the unevenly shaped portion.

13. (New) The device according to claim 12, wherein the unevenly- shaped portion of the first movable electrode and the unevenly shaped portion of the second driving electrode are arranged to be displaced from each other in phase.

14. (New) The device according to claim 12, wherein the unevenly- shaped portion of the first movable electrode and the unevenly shaped portion of the second driving electrode have a

shape selected from a group consisting of a planar rectangular shape, a triangular shape, a trapezoidal shape, a semi-circular shape and a saw-tooth shape.